



23-28 February 2014 / Hawaii Convention Center
Honolulu, Hawaii USA 

E Komo Mai

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Association for the Sciences of Limnology and Oceanography

AGU
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THE OCEANOGRAPHY SOCIETY

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002 - Understanding Coupled Human-Natural Systems: Multi-disciplinary Approaches for Addressing Sustainability of the Marine Environment

Human activities are impacting the sustainability and resilience of the marine environment. However, much uncertainty exists regarding how social-ecological systems will respond to a diverse and dynamic set of threats such as climate change, sea level rise and ocean acidification and how in turn these responses may impact ecosystem services. To understand the evolution and feedbacks among myriad pressures, while balancing human health and well being with ecosystem health, will require the creation and application of multi-disciplinary teams, effective cross-discipline tools in the context of research coordination networks. In this session we explore the interface of human dimensions science and oceanography. We solicit presentations on emerging tools for understanding social- ecological linkages and discussions on the feedbacks and trade- offs inherent in complex marine systems. Drawing on examples from the coastal marine environment in locations as diverse as the Baltic Sea, the Gulf of Mexico and tropical islands, we want to discuss recent developments and future scenarios for moving the marine environment closer to sustainability. We encourage submissions from those developing and applying multi- disciplinary theory, ecosystem-based methods, or working towards creating the infrastructure and research networks critical to the successful understanding of the marine environment. As our session lies at the interface of several disciplines we invite presentations from researchers interested in broadly engaging those in the marine and social science communities. Through this session we will provide a forum for presentations and discussion of novel collaborations among researchers studying social-ecological systems.

Organizers

Geoffrey S. Cook , University of Miami, Cooperative Institute for Marine and Atmospheric Studies
gcook@rsmas.miami.edu

Jay Pearlman , University of Colorado, IEEE
jay.pearlman@ieee.org

Lida Teneva , Stanford University
lteneva@stanford.edu

Hans von Storch , Institute for Coastal Research, Helmholtz Zentrum Geesthacht
hvonstorch@web.de

Bob Houtman , National Science Foundation
bhoutman@nsf.gov

Christopher R. Kelble , NOAA, Atlantic Oceanographic and Meteorological Laboratory
chris.kelble@noaa.gov

John N. Kittinger , Center for Ocean Solutions, Stanford University
jkittinger@gmail.com

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